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| 5        | 118     | 358/3.28.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/12 14:58 |
| 6        | 1093    | 713/176.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/12 15:01 |
| 7        | 1021    | 283/72.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/12 15:02 |
| -        | 5       | 943365.ap.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:46 |
| -        | 863     | steganograph\$6   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:25 |
| -        | 9825    | water\$1mark\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:27 |
| -        | 2617303 | digital\$4 or electronic\$4   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:28 |
| -        | 734419  | bit or byte or (binary adj (code or data or information or number or value or digit))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:31 |
| -        | 2537432 | imag\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:31 |
| -        | 255394  | pixel or voxel  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:32 |
| -        | 107009  | (film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:57 |
| -        | 606609  | water\$1mark or fingerprint or (finger adj print) or mark   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:06 |
| -        | 483830  | encod\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:06 |
| -        | 497073  | random  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:53 |

|   |         |   |   |                  |
|---|---------|---|---|------------------|
| - | 750802  | noise   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 13:56 |
| - | 1482580 | luminance or illumination or intensity or magnitude or brightness or radiance or (light adj (emitt\$4 or emission))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:44 |
| - | 10077   | steganograph\$6 or water\$1mark\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:48 |
| - | 737011  | ((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:52 |
| - | 65490   | ((((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:53 |
| - | 23398   | encod\$3 same random  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:54 |
| - | 9258    | ((((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) same ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration))    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:57 |
| - | 73017   | ((((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) or encod\$3) same (luminance or illumination or intensity or magnitude or brightness or radiance or (light adj (emitt\$4 or emission))) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:58 |
| - | 17764   | encod\$3 same noise   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:58 |
| - | 38304   | (encod\$3 same random) or (encod\$3 same noise)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 14:58 |
| - | 1233    | (steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:01 |

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| - | 50  | ((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) same ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration)))    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:01 |
| - | 480 | ((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and ((encod\$3 same random) or (encod\$3 same noise))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:02 |
| - | 571 | ((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) or encod\$3) same (luminance or illumination or intensity or magnitude or brightness or radiance or (light adj (emitt\$4 or emission)))) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:04 |

|   |         |   |   |                  |
|---|---------|---|---|------------------|
| - | 18      | ((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) same ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration)))) and (((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and ((encod\$3 same random) or (encod\$3 same noise))) and (((steganograph\$6 or water\$1mark\$3) and imag\$3 and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) with encod\$3)) and (((digital\$4 or electronic\$4) adj (water\$1mark or fingerprint or (finger adj print) or mark)) or (bit or byte or (binary adj (code or data or information or number or value or digit)))) or encod\$3) same (luminance or illumination or intensity or magnitude or brightness or radiance or (light adj (emitt\$4 or emission)))) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:04 |
| - | 649464  | water\$1mark or fingerprint or (finger adj print) or mark or signature  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:06 |
| - | 1224181 | encod\$3 or embed\$4 or hid\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/24 15:08 |
| - | 5       | ("4499551"   "4673975"   "4783840"   "5243423"   "5398283").PN.   | USPAT   | 2004/09/27 12:06 |
| - | 9946    | watermark\$3 or steganograph\$6   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:51 |
| - | 7762125 | information or code or ID or data or value or key or keyword  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:48 |
| - | 843688  | bit or byte or binary   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:50 |
| - | 846993  | encod\$3 or embed\$3 or imbed\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:51 |

|   |          |  |   |                  |
|---|----------|--|---|------------------|
| - | 648627   | watermark\$3 or steganograph\$6 or signature or fingerprint or mark  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:40 |
| - | 8070     | (encod\$3 or embed\$3 or imbed\$3) near3 (watermark\$3 or steganograph\$6 or signature or fingerprint or mark)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:54 |
| - | 5998     | ((encod\$3 or embed\$3 or imbed\$3) near3 (watermark\$3 or steganograph\$6 or signature or fingerprint or mark)) same (information or code or ID or data or value or key or keyword)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:56 |
| - | 107100   | (film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 14:57 |
| - | 33       | ((encod\$3 or embed\$3 or imbed\$3) near3 (watermark\$3 or steganograph\$6 or signature or fingerprint or mark)) same (information or code or ID or data or value or key or keyword)) same ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 15:27 |
| - | 10504615 | represent\$3 or includ\$3 or compris\$3 or indicat\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:40 |
| - | 18       | ((watermark\$3 or steganograph\$6 or signature or fingerprint or mark) near3 (represent\$3 or includ\$3 or compris\$3 or indicat\$3)) near3 ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:03 |
| - | 8840     | watermark  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:03 |
| - | 2298     | watermark near3 (represent\$3 or includ\$3 or compris\$3 or indicat\$3)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:05 |
| - | 42476    | 382/\$.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:05 |
| - | 630      | (watermark near3 (represent\$3 or includ\$3 or compris\$3 or indicat\$3)) and 382/\$.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:39 |
| - | 88404    | watermark\$3 or steganograph\$6 or signature or fingerprint  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:40 |
| - | 10724514 | represent\$3 or includ\$3 or compris\$3 or indicat\$3 or correspond\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:41 |

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|---|------|---|---|------------------|
| - | 3    | (watermark\$3 or steganograph\$6 or signature or fingerprint) adj3 (represent\$3 or includ\$3 or compris\$3 or indicat\$3 or correspond\$3) adj5 ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:47 |
| - | 0    | (watermark\$3 or steganograph\$6) adj (information or code or ID or data or value or key or keyword) adj5 (represent\$3 or includ\$3 or compris\$3 or indicat\$3 or correspond\$3) adj5 ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:53 |
| - | 2710 | (watermark\$3 or steganograph\$6) adj (information or code or ID or data or value or key or keyword)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:54 |
| - | 11   | ((watermark\$3 or steganograph\$6) adj (information or code or ID or data or value or key or keyword)) same ((film or image or picture or photograph or figure or frame) adj3 (speed or velocity or rate or tempo or pace or acceleration))) and 382/\$.ccls.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/28 16:55 |
| - | 12   | 5930369.pn. 5915027.pn. 6353479.pn. 5734752.pn. 5530759.pn. 6542927.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/09/29 09:18 |
| - | 2    | 5636292.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/04 14:14 |
| - | 2    | 5710834.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/04 14:19 |
| - | 2    | 5745604.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/04 15:09 |
| - | 2    | 5850481.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/04 14:36 |
| - | 3    | 5822436.pn.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2004/10/04 15:09 |

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1 **Watermark detection based on the properties of error control codes**
*Loo, P.; Kingsbury, N.;*

Vision, Image and Signal Processing, IEE Proceedings- , Volume: 150 , Issue: 2 , 21 April 2003

Pages:115 - 121

[\[Abstract\]](#)   [\[PDF Full-Text \(640 KB\)\]](#)   **IEE JNL**
2 **Attacks on digital watermarks: classification, estimation based attacks and benchmarks**
*Voloshynovskiy, S.; Pereira, S.; Pun, T.; Eggers, J.J.; Su, J.K.;*

Communications Magazine, IEEE , Volume: 39 , Issue: 8 , Aug. 2001

Pages:118 - 126

[\[Abstract\]](#)   [\[PDF Full-Text \(2536 KB\)\]](#)   **IEEE JNL**
3 **Audio watermarking techniques using sinusoidal patterns based on pseudorandom sequences**
*Liu, Z.; Inoue, A.;*

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 13 , Issue: 8 , Aug. 2003

Pages:801 - 812

[\[Abstract\]](#)   [\[PDF Full-Text \(607 KB\)\]](#)   **IEEE JNL**
4 **Capacity and reliability of digital watermarking**
*Zhang Fan; Zhang Hongbin;*

Business of Electronic Product Reliability and Liability, 2004 International Conference on , Apr 27-30, 2004

Pages:162 - 165



[\[Abstract\]](#) [\[PDF Full-Text \(395 KB\)\]](#) IEEE CNF

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**5 Novel blind multiple watermarking technique for images**

*Wong, P.H.W.; Au, O.C.; Yeung, Y.M.;*

Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 13 , Issue: 8 , Aug. 2003  
Pages:813 - 830

[\[Abstract\]](#) [\[PDF Full-Text \(2004 KB\)\]](#) IEEE JNL

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**6 Power-spectrum condition for energy-efficient watermarking**

*Su, J.K.; Girod, B.;*

Multimedia, IEEE Transactions on , Volume: 4 , Issue: 4 , Dec. 2002  
Pages:551 - 560

[\[Abstract\]](#) [\[PDF Full-Text \(762 KB\)\]](#) IEEE JNL

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**7 Robust optimum detection of transform domain multiplicative watermarks**

*Qiang Cheng; Huang, T.S.;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Sigr Processing, IEEE Transactions on] , Volume: 51 , Issue: 4 , April 2003  
Pages:906 - 924

[\[Abstract\]](#) [\[PDF Full-Text \(1211 KB\)\]](#) IEEE JNL

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**8 Information retrieval in digital watermarking**

*Hernandez Martin, J.R.; Kutter, M.;*

Communications Magazine, IEEE , Volume: 39 , Issue: 8 , Aug. 2001  
Pages:110 - 116

[\[Abstract\]](#) [\[PDF Full-Text \(1376 KB\)\]](#) IEEE JNL

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**9 Geometric properties of watermarking schemes**

*Ee-Chien Chang; Orchard, M.;*

Image Processing, 2000. Proceedings. 2000 International Conference on , Vol 3 , 10-13 Sept. 2000  
Pages:714 - 717 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) IEEE CNF

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**10 An asymmetric watermarking system with many embedding watermarks corresponding to one detection watermark**

*Tae Young Kim; Hyuk Choi; Kiryung Lee; Taejeong Kim;*

Signal Processing Letters, IEEE , Volume: 11 , Issue: 3 , March 2004  
Pages:375 - 377

[\[Abstract\]](#) [\[PDF Full-Text \(144 KB\)\]](#) IEEE JNL

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**11 Digital watermarking using zerotree of DCT**

*Chuan-Fu Wu; Wen-Shyong Hsieh;*

Consumer Electronics, IEEE Transactions on , Volume: 46 , Issue: 1 , Feb. 200

Pages:87 - 94

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) [IEEE JNL](#)

### 12 **Temporal Synchronization in Video Watermarking**

*Lin, E.T.; Delp, E.J.;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 52 , Issue: 10 , Oct. 2004  
Pages:3007 - 3022

[\[Abstract\]](#) [\[PDF Full-Text \(776 KB\)\]](#) [IEEE JNL](#)

### 13 **Bit-plane watermarking for zerotree-coded images**

*Shih-Hsuan Yang; Hsin-Chang Chen;*

Circuits and Systems, 2002. APCCAS '02. 2002 Asia-Pacific Conference on , Volume: 2 , 28-31 Oct. 2002  
Pages:73 - 78 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(619 KB\)\]](#) [IEEE CNF](#)

### 14 **Spatial domain digital watermarking of multimedia objects for buyer authentication**

*Mukherjee, D.P.; Maitra, S.; Acton, S.T.;*

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004  
Pages:1 - 15

[\[Abstract\]](#) [\[PDF Full-Text \(800 KB\)\]](#) [IEEE JNL](#)

### 15 **A blind watermarking algorithm with semantic meaningful watermark**

*Chun-Hsiang Huang; Ja-Ling Wu; Ding-Yun Chen;*

Signals, Systems and Computers, 2000. Conference Record of the Thirty-Four Asilomar Conference on , Volume: 2 , 29 Oct.-1 Nov. 2000  
Pages:1827 - 1830 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) [IEEE CNF](#)

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